DETERMINANTS OF LOW CARBON SUPPLY CHAIN IN MALAYSIAN MANUFACTURING INDUSTRY: PRACTICES AND ITS RELATIONSHIP ON GREEN SUPPLY CHAIN OPERATIONAL PERFORMANCE AND LOW CARBON PERFORMANCE

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I hereby declare that the work in this thesis is based on my original work except for quotations and citations which have been duly acknowledged. I also declare that it has not been previously or concurrently submitted for any other degree at Universiti Malaysia Pahang or any other institutions.

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Thesis submitted in fulfillment of the requirements
for the award of the degree of
Doctor of Philosophy

Faculty of Industrial Management
UNIVERSITI MALAYSIA PAHANG

JULY 2019

ACKNOWLEDGEMENTS

In the name of Allah, the Beneficent and the Merciful. All praise to Allah for allowing me to finish this dissertation.

I would like to thank Dr Yudi Fernando for I have been his mentee for more than seven years and he has always helped and supported me directly or indirectly throughout my academic, work and life. I pray that Allah will prolong my good relationship with Dr Yudi and I will always respect my mentor and try to repay the trust and support even though it is impossible. May Allah shower Dr Yudi and family with wealth, health and goodness.

I also would like to thank my mother and father as I will never be able to get education nor live without the mercy of my parents that Allah bestowed on them. I will never be able to repay their kindness and I do hope that each word in this dissertation and every breath I used for learning will be their goodwill for the Hereafter. I pray that Allah will make me a good scholar and always desire for knowledge that will bring me closer to Allah's mercy.

I also am blessed that my wife is very supportive and never questioned nor give me difficulties when I had to choose between completing my studies and giving my attention to her. Alhamdulillah and I hope that one day her sacrifices will be blessed by Allah. May Allah protect, give health, wealth and mercy to my wife and all of my family members.

Lastly, I would like to thank all of my friends in Penang, Pahang, Yogyakarta and Bandung for they have helped me to complete this dissertation. In addition, not forgetting FIM academic and administration staff, PGA 18 members, IPS staff and everyone that Allah sent to help me. May Allah blessed us all. In Syaa Allah.

ABSTRAK

Perubahan iklim semasa merupakan penyumbang utama kepada kelestarian alam. Penyumbang utama perubahan iklim ini adalah kerana pelepasan karbon yang tinggi. Oleh itu, sarjana dan pengamal industi telah memberi tumpuan kepada pengurangan pelepasan karbon di dalam rantaian bekalan dan operasi syarikat pembuatan. Ini adalah kerana syarikat di sektor pembuatan mempunyai kadar pencemaran karbon yang tinggi. Walau bagaimanapun, model rantaian bekalan sedia ada tidak mampu mengurangi pelepasan karbon kerana ketiadaan langkah amalan pengurangan karbon yang menyeluruh. Justeru, penyelidikan ini adalah bertujuan untuk membangunkan model pengurangan karbon didalam rantaian bekalan yang berlandaskan teori. Selain itu, kajian ini juga bertujuan untuk menganalisa hubungkait antara penentu dengan amalan pengurangan karbon rantaian bekalan serta hubungkait antara amalan pengurangan karbon rantaian bekalan dengan prestasi karbon rendah. Selain itu, penyelidikan ini juga telah memperkenalkan pembolehubah pengantara prestasi operasi rantaian bekalan hijau. Metodologi kuantitatif telah digunapakai oleh kajian ini bagi menjawab kajian objektif. Sebanyak 700 kajian soal selidik telah dihantar kepada syarikat pembuatan yang berdaftar dibawah Persekutuan Perkilangan Malaysia dan sebanyak 143 soal selidik telah diterima lengkap untuk tujuan analisa. Analisa kajian dilakukan dengan menggunakan perisian IBM SPSS versi 24 dan SmartPLS versi 3.2.8. Hasil kajian mendapati amalan pengurangan karbon rantaian bekalan mempunyai hubungan positif dan penting kepada prestasi karbon rendah oleh syarikat pembuatan. Selain itu, kajian menunjukkan prestasi operasi rantaian bekalan hijau mampu menjadi pengantara dan meningkatkan hubungan antara amalan pengurangan karbon rantaian bekalan dengan prestasi karbon rendah. Tambahan pula, tekanan dari pelanggan didapati mempunyai pengaruh lebih memaksa berbanding peraturan kerajaan didalam amalan pengurangan karbon rantaian bekalan. Keseluruhan hasil kajian ini menyumbang kepada pembangunan teori institusi dan kajian literatur rantaian bekalan dan operasi. Hasil penyelidikan juga dapat membantu syarikat untuk meningkatkan prestasi penjagaan alam sekitar dan prestasi operasi syarikat.

ABSTRACT

Climate change has become one of the most critical sustainability challenges. One of the most evident contributor of climate change is carbon emissions. Therefore, academia and firms are focusing on carbon emissions reduction in both the supply chain and operations as manufacturing and supply chain activities emit high carbon emissions. Nevertheless, the current supply chain model lack of carbon emissions abatement. Thus, this study's objectives are to develop a theoretical model for low carbon supply chain and to examine the relationship between determinants on low carbon supply chain practices and the practices with low carbon performance. In addition, this study also investigates the mediating effect of green supply chain operational performance. The methodology adopted in this study is of a quantitative method. 700 survey questionnaires were sent out to manufacturing firms registered with Federal of Manufacturers Malaysia and 143 completed questionnaires were collected and analyzed. This study uses IBM SPPS version 24 and SmartPLS version 3.2.8 software to analyze the data. Based on the finding, it shows that low carbon supply chain practices have positive effect on low carbon performance of firms. In addition, the mediating effect of green supply chain operational performance was found to mediate the relationship and improve low carbon supply chain practices of manufacturing firms. It was further found that customer pressure has a coercive nature compared to government regulations. These findings have contributed to the extension of Institutional theory knowledge and the literature of supply chain and operations. The comprehensive low carbon supply chain model has also been proven valid and reliable to help manufacturing firms meet environmental performance and operational performance. The introduction of mediating effect to improve low carbon performance has also contributed to the literature as currently firms are split in decision whether to achieve environmental performance or operational performance. The finding shows that manufacturing firms achieved better results with both performances. Practically, manufacturing firms are recommended to adopt green supply chain operational performance in order to achieve better low carbon performance.

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